HPMS Pavement Data Items

 I6 different pavement data items are sought (HPMS Field Manual Items 47-62)

 Used in nationwide pavement modeling and cost allocation studies and calculations



Pavement Data Input Spreadsheet

HPMS Pavement Data Information Report

Pavement Data Sought

			1								Current Pave	ment Data					
Section Identification					Either of the two												
STREET_NAME	FROM	то	Section Length (miles)	IRI	PCI	SURFACE_ TYPE	RUTTING	FAULTING	CRACKING _PERCENT			YEAR_LAST_ CONSTRUCTION	LAST_ OVERLAY_ THICKNESS	THICKNESS_ RIGID	THICKNESS_ FLEXIBLE	BASE_TYPE	BASE_ THICKNESS
		·															

Item 47 - IRI

International Roughness Index.

 IRI should be measured on an annual cycle for all Principal Arterials

Item 48 - PSR

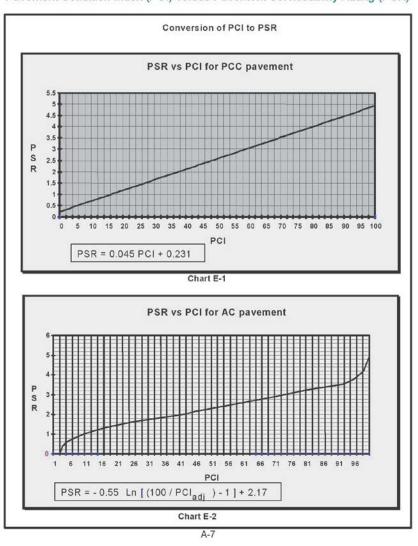
PSR - Present Serviceability Rating

 Report PCI (Pavement Condition Index) if that is what you have and we will convert to PSR

PCI to PSR conversion Table

Appendix E

Pavement Condition Index (PCI) versus Pavement Serviceability Rating (PSR)



Item 49 – SURFACE TYPE

 Any change in the surface type is required to be reported after the initial reporting.

Surface Types

<u>Code</u>	Description
	Unpaved
2	Bituminous
3	JPCP – Jointed Plain Concrete Pavement
4	JRCP – Jointed Reinforced concrete Pavement
5	CRCP – Continuously Reinforced Concrete Pavement
6	AC Overlay over Existing AC Pavement
7	AC Overlay over Existing Jointed Concrete Pavement
8	AC (Bituminous Overlay over Existing CRCP)
9	Un-bonded Jointed Concrete Overlay on PCC Pavement
10	Bonded PCC Overlay on PCC Pavement
11	Other

Item 50 - RUTTING

- Average depth of Rutting.
- Report average of both wheel paths.
- Report to the nearest .1 inch
- This data is to be collected on two year cycle.

Item 51 - FAULTING

(concrete pavements only - codes 23,4,9,10)

 The average vertical displacement (difference in elevation) between adjacent concrete joined panels in the direction of travel.

- Every joint should be measured and the average reported to the nearest .1 inch.
- This data is to be collected on two year cycle.

Item 52 – CRACKING PERCENT (For AC & PCC pavements)

- Estimate percent area with fatigue type cracking for AC (asphalt concrete) pavements (typically in wheel path)
- Percent of slabs with cracking for PCC (Portland Cement Concrete pavements.)
- This data is to be collected on two year cycle.

Item 53 - CRACKING LENGTH

- Estimate of relative length in feet per mile (ft/mi) of transverse cracking for AC pavements and reflection cracking for composite pavements where AC is the top surface layer.
- Consider cracks of at least 6 feet in length.
- Report in feet/mile

[(Accumulative Crack Length in feet/Surveyed Section Length in feet)* 5,280]

This data is to be collected on two year cycle.

Item 54 – YEAR LAST IMPROVEMENT

- The year (completion date) in which the roadway surface was last improved.
- 0.5 inch or more compacted pavement material must be put in place for it to be considered a surface improvement.
- Report the best known year. Retain the coded improvement year until another improvement affecting the surface is completed.

Item 55 - YEAR LAST CONSTRUCTION

• The year in which the roadway was constructed or reconstructed. Report the best known year.

Item 56 - LAST OVERLAY THICKNESS

- Thickness of the most recent pavement overlay to the nearest .5 inch
- An overlay is more than 0.5 inch in compacted thickness.

Item 57 – THICKNESS RIGID (PCC pavement)

- Thickness of rigid pavement to the nearest
 .5 inch.
- The thickness should reflect the last improvement on the section.
- When an improvement is made, consider all new or redesigned base and pavement materials when determining the appropriate value.

Item 58 – THICKNESS FLEXIBLE (AC pavement)

- Thickness of the flexible pavement to the nearest .5 inch.
- Report total thickness of all AC pavement layers
- If PCC has been overlaid on AC composite, report the AC layer thickness under it.
- If AC has been overlaid on PCC, report the AC layer on top.

Item 59 – BASE TYPE

- The base pavement type.
- Base is everything between sub-grade and surface course.
- Use the code that best describes the layer immediately below the surface layer.

Base Types

<u>Code</u>	<u>Description</u>
I	No Base
2	Aggregate
3	Asphalt or Cement Stabilized
5	Hot Mix AC (Bituminous)
6	Lean concrete
7	Stabilized Open-graded Permeable
8	Fracture PCC

Item 60 – BASE THICKNESS

 The thickness of the base pavement to the nearest inch.

 Base includes everything between subgrade and surface course.

• If there are several types of base, report total thickness of all base layers.

Item - 61 Climate Zone and Item - 62 Soil Type

 FYI – These items will be populated by FHWA.